

ABSTRACT OF THE DISCLOSURE

A high pressure discharge lamp including a ceramic discharge tube defining an inner space and having an opening formed within an end portion thereof, an electrode system provided within the inner space, a sealing member including a ceramic or a cermet with a through hole formed therein, at least a part of the sealing member being fixed within the opening of the ceramic discharge tube, and a metal member. A joining portion is interposed between the metal and sealing members, and includes a main phase contacting the metal member and an intermediate ceramic layer contacting the sealing member and existing between the sealing member and the main phase. The main phase includes a porous bone structure with open pores, is made of a sintered product of metal powder, and includes a ceramic phase impregnated into the open pores thereof.